

CLAIMS:

1. An antenna having a dielectric substrate (1) and two resonant printed wiring structures, more particularly for use in high-frequency and microwave range, a first printed wiring structure (2) being arranged on one end face of the substrate (1) along a first edge and a second printed wiring structure (3) on an opposite, second edge of the same end face.

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2. An antenna as claimed in claim 1, characterized in that the second printed wiring structure (3) is equal to the first printed wiring structure (2) as regards shape and size.

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3. An antenna as claimed in claim 1, characterized in that the substrate (1) is in essence rectangular having two larger end faces and four smaller end faces and in that the first and second printed wiring structures (2, 3) are deposited on a first end face and stretch out from a first to a second, opposite side face along the edge.

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4. An antenna as claimed in claim 1, characterized in that the first and second printed wiring structures (2, 3) have the form of a rectangular face.

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5. An antenna as claimed in claim 3, characterized in that each printed wiring structure (2, 3) is subdivided into three printed wires (11 to 13) where

- a first printed wire (11) stretches out from the first to the second side face along the edge, and
- a second printed wire (12) stretches out from the second to the first end face,
- a third printed wire (13) is connected to the first printed wire and the first printed wire is connected to the second printed wire.

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6. An antenna as claimed in claim 5, characterized in that a fourth printed wire (14) is connected to the second printed wire (12).

7. An antenna as claimed in claim 5, characterized in that the first and second printed wires (11, 12) are equally long.

8. An antenna as claimed in claim 5, characterized in that the third and fourth printed wires (13, 14) are equally long.

5 9. An antenna as claimed in claim 5, characterized in that the first and second printed wires (11, 12) are longer than the third and fourth printed wires (13, 14).

10. An antenna as claimed in claim 5, characterized in that the fourth printed wire (14) runs along an edge of the first end face.

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11. An antenna as claimed in claim 5, characterized in that the first and third printed wires are arranged perpendicular to the second and fourth printed wires.

12. An antenna as claimed in claim 2, characterized in that the second printed
15 wiring structures (2, 3) are mirrored on the first end face.

13. A printed wiring board on which an antenna as defined in one of the previous claims is arranged.

20 14. A radio communication device, more particularly for the GPS, DCS/PCS, UMTS and Bluetooth domain, characterized by an antenna as claimed in one of the claims 1 to 12.